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Business Process Management



Adam Bosworth, Google

- "Alan Kay is supposed to have said that simple things should be simple and hard things should be possible. It has been my experience over 25 years of software development that for most software products, *simple things should be declarative and/or visual* and hard things should be procedural."

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Why IT Can't Do What I Want?

Strategic SOA

Workflow and Process



“Technical skill is mastery of complexity, while creativity is mastery of simplicity”

- Enterprises Are An Aggregation of Business Processes
- Business Process – Set Of On or More Linked Procedures or Activities Which Realize a Business Objective or Goal
- Formalize Your Processes = Rigidity
- Don't Formalize = Uncontrollable Mess
- Great!



Business Processes

Strategic SOA

Business Process Management to the Rescue

- Traditional Approach
 - Complex Processes
 - Lack Detail
 - Poor error handling
 - Limited visibility
 - Business Requirements change before you finished coding



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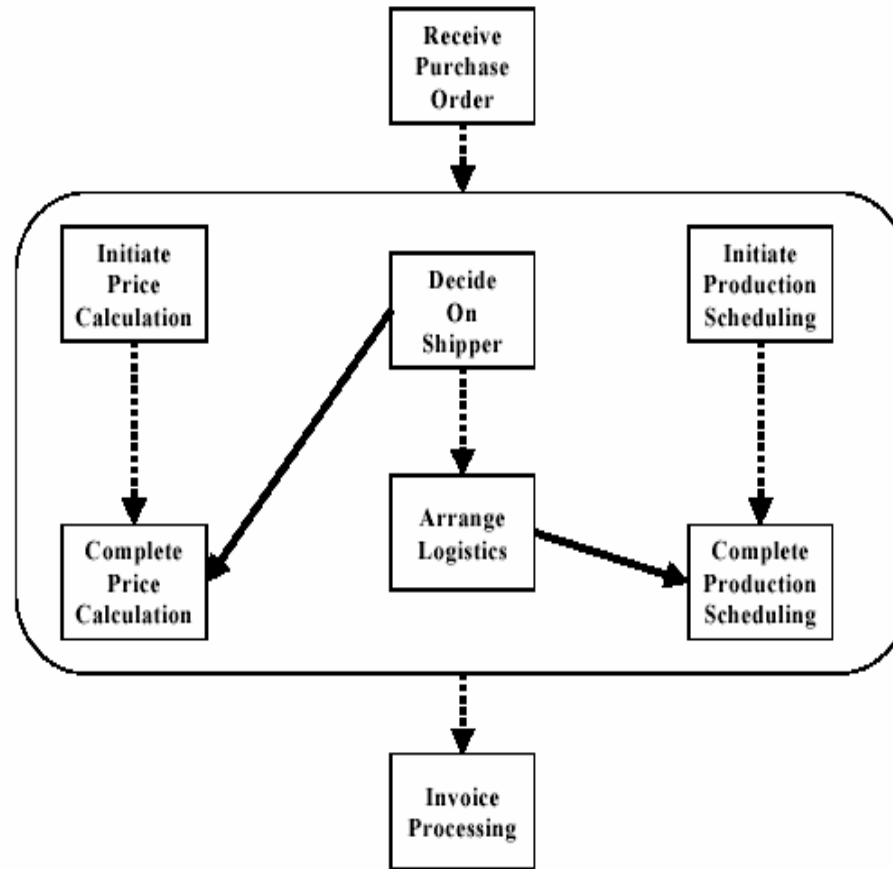
Abstract and compose

- Split the problem up into manageable pieces
- Abstract away from the details
- Compose those pieces graphically
- With the right building blocks you can build anything



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A sample business process



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Orchestration vs Choreography

Orchestration



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Choreography



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A British analogy



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<http://blog.whatfettle.com/archives/000250.html> - Paul Downey's weblog

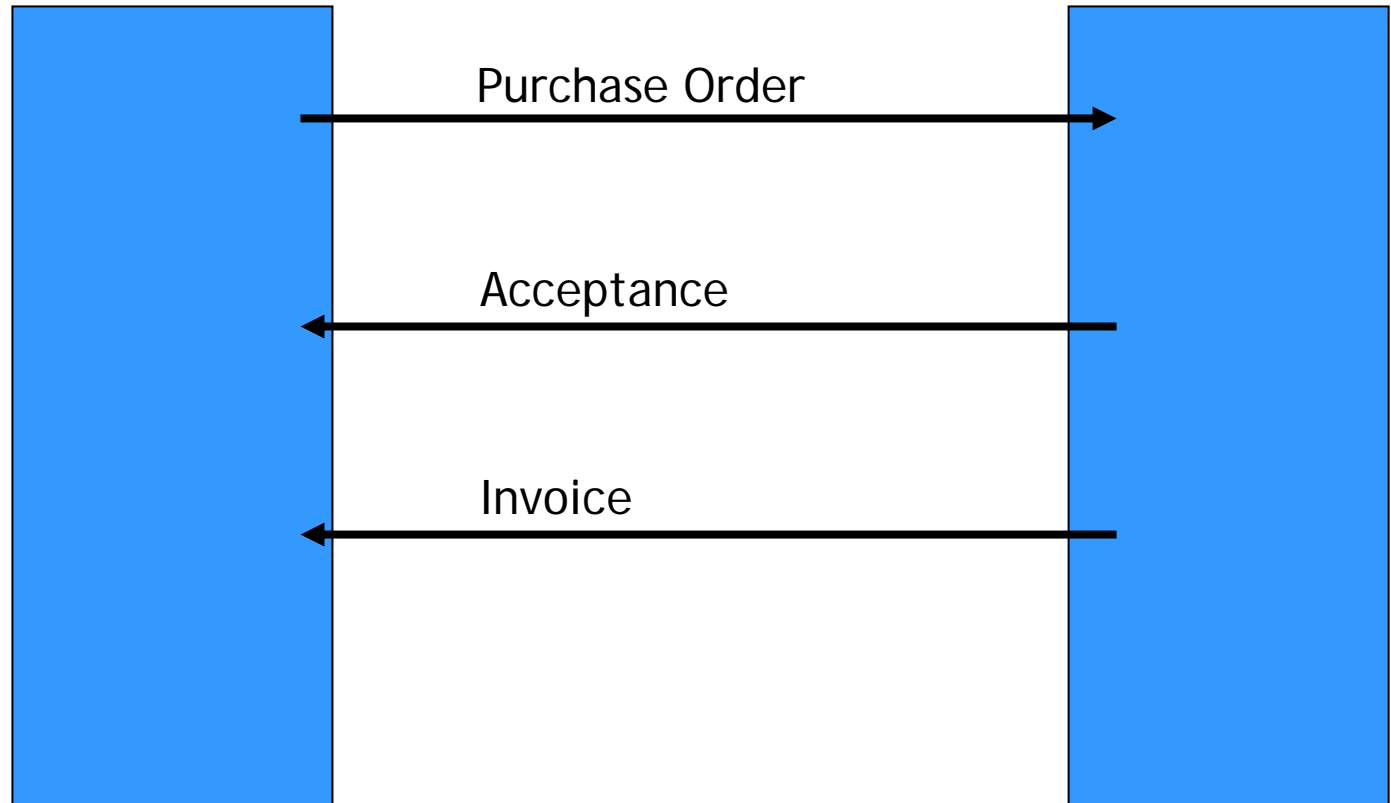


In words

- Orchestration
 - Direct control of the business process by a system – also known as *workflow*
- Choreography
 - Loosely coupled definition of how parties interact
 - The interactions between systems not the implementation of those systems

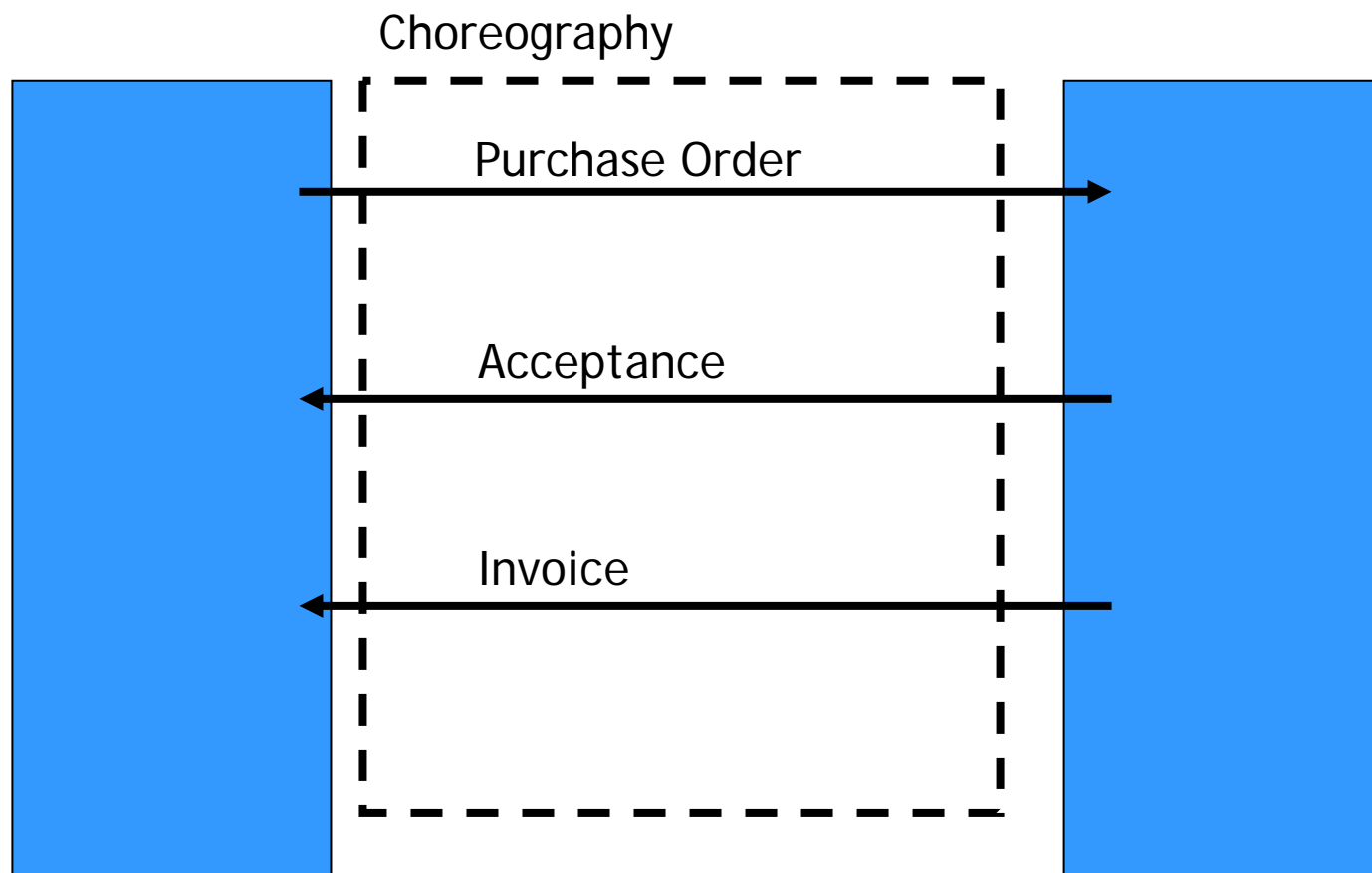
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Business Process



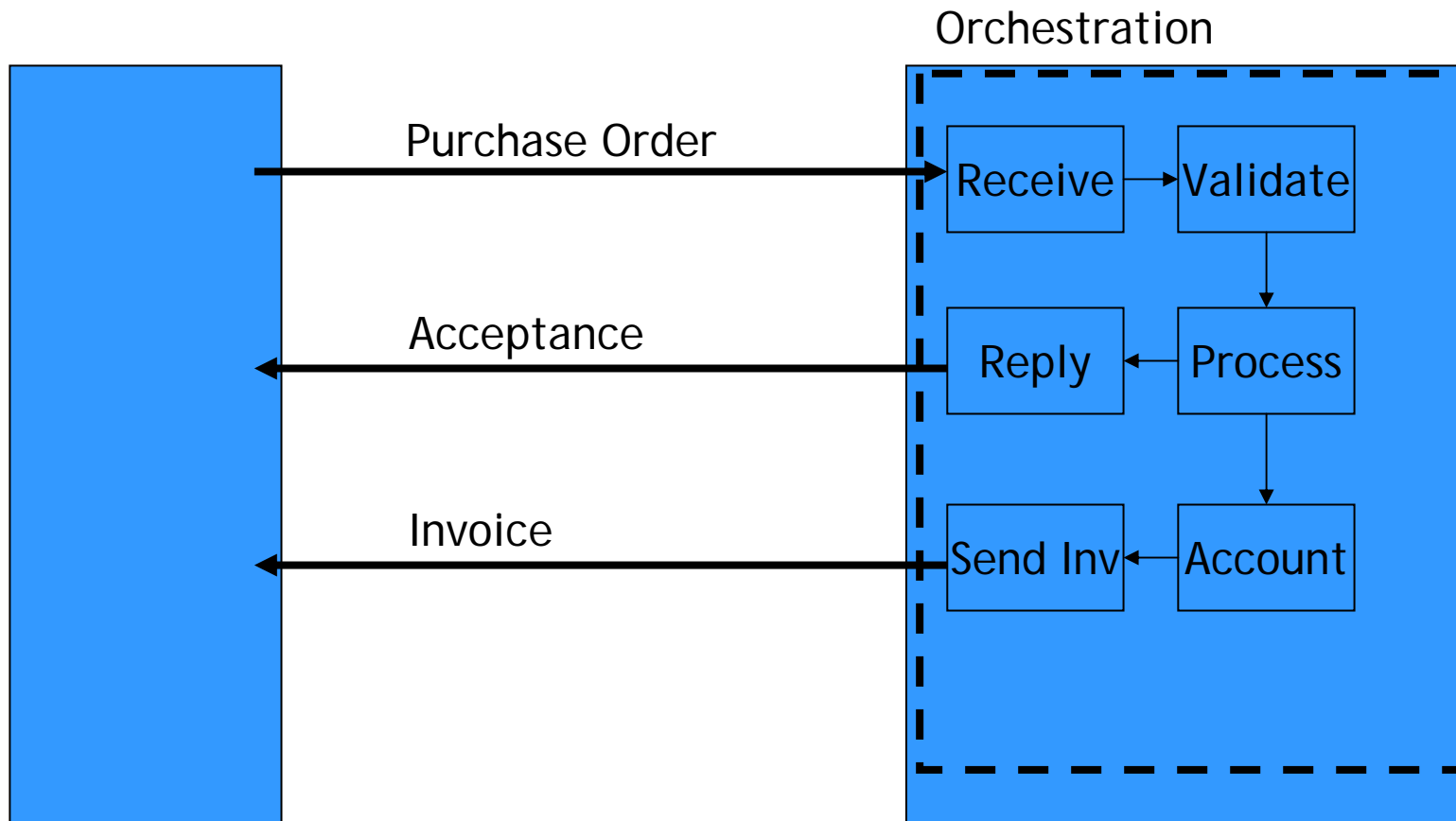
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Aims of using Business Process

- Simple model:
 - Use a model that the business understands:
 - Business Process flows are *readable*
- Cleaner architecture
 - Build a layer of abstraction between the *services* and the *process*
 - But the services may be processes themselves!
- Better manageability
 - A process manager should be able to give data to a Business Monitor/Dashboard
- Faster time to market
 - More reuse of existing services
 - Simple graphical modeling

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Standards

- Two main contenders
 - Web Services Choreography Description Language
 - <http://www.w3.org/TR/ws-cdl-10/>
 - A global perspective
 - Business Process Execution Language
 - http://oasis-open.org/committees/tc_home.php?wg_abbrev=wsbpel
 - A local perspective – orchestration
 - Some support for choreography (Abstract processes)

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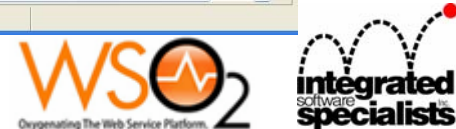


Business Process Execution Language

- A specification created by IBM, Microsoft + others
 - BPEL 1.1
- Currently implemented in
 - WebSphere Business Process Server
 - Microsoft Biztalk
 - ActiveEndpoints BPEL server
 - + others
- Submitted to OASIS
 - BPEL 2.0

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A stylized, isometric illustration of a city skyline. In the foreground, a person wearing a yellow hard hat and a green shirt is working on a computer. The city features a bridge, a plane flying in the sky, and various buildings, including one with a green cross on its side. The background is a bright yellow sky with a blue sun.





BPEL

- Allows organisations to build and deploy robust processes
 - Faster
 - Simpler
 - More maintainable
- Tooling allows analysts to create processes graphically
 - That integrate existing services in the organisation and outside
- BPEL is SOA in action

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Business Process Monitoring

- A good Business Process **Manager** also supports Business Process **Monitoring**
- Because the high level process is designed as a loosely coupled flow, its possible to monitor it at a business level
- The result is a business **dashboard**
 - Can identify bottlenecks
 - Help understand how the system is used and how the process is used
 - Monitor the business at the right level
 - A management console for managers

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Summary

- Business Process Management
 - Enables faster time to market
 - Re-uses services more easily
 - Helps the business monitor
 - Increases the alignment of IT to the business

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Exercise



Workshop/Hands On

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20 minutes:

1. Identify a business process in your organization
Or **across** organizations
2. Draw it (any way you like, e.g. flowchart)
3. What are the decision points? Do they need human input?
4. What are the services involved?
5. How often does this process occur?
6. What happens when it goes wrong!?



Questions?



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